

Please add the following new claims:

Rule
1.26

~~101.~~ (Added) An antibody immunoreactive with a 5-enolpyruvylshikimate-3-phosphate synthase enzyme, the enzyme comprising the sequence domains:

~~-R-X₁-H-X₂-E- (SEQ ID NO:37), in which~~

~~X₁ is G, S, T, C, Y, N, Q, D or E;~~

~~X₂ is S or T; and~~

~~-G-D-K-X₃- (SEQ ID NO:38), in which~~

~~X₃ is S or T; and~~

~~-S-A-Q-X₄-K- (SEQ ID NO:39), in which~~

~~X₄ is A, R, N, D, C, Q, E, G, H, I, L, K, M, F, P, S, T, W, Y or V; and~~

~~-N-X₅-T-R- (SEQ ID NO:40), in which~~

~~X₅ is A, R, N, D, C, Q, E, G, H, I, L, K, M, F, P, S, T, W, Y or V.~~

~~102.~~ (Added) The antibody of claim 101, wherein X₁ is D or N; X₂ is S or T; X₃ is S or T; X₄ is V, I or L; and X₅ is P or Q.

~~103.~~ (Added) The antibody of claim 101, wherein the enzyme comprises SEQ ID NO:3.

~~104.~~ (Added) The antibody of claim 101, further defined as a polyclonal antibody.

~~105.~~ (Added) The antibody of claim 101, further defined as a monoclonal antibody.

~~106.~~ (Added) A method of detecting a 5-enolpyruvylshikimate-3-phosphate synthase enzyme in a sample, the method comprising:

~~selecting a sample suspected of containing a 5-enolpyruvylshikimate-3-phosphate synthase enzyme;~~

~~contacting the sample with an antibody to form an enzyme-antibody complex; and~~

~~detecting the presence of the enzyme-antibody complex; wherein the antibody is immunoreactive with SEQ ID NO:3.~~

~~107.~~ (Added) A method of detecting a 5-enolpyruvylshikimate-3-phosphate synthase enzyme in plant cells or plant tissue, the method comprising: